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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,808	09/08/2003	William Steinway	10897-024001	7090	
26171	7590 09/20/2005		EXAMINER		
FISH & RICHARDSON P.C.			PIHULIC, DANIEL T		
P.O. BOX 102	2				
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER	
			3662		

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		ation No.	Applicant(s)			
		6,808	STEINWAY ET AL			
		ner	Art Unit			
		Pihulic	3662			
The MAILING DATE of this comm	unication appears on	the cover sheet with the c	correspondence add	dress		
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provise after SIX (6) MONTHS from the mailing date of this or lif NO period for reply is specified above, the maximum Failure to reply within the set or extended period for Any reply received by the Office later than three montearned patent term adjustment. See 37 CFR 1.704(b)	MAILING DATE OF ons of 37 CFR 1.136(a). In nommunication. In statutory period will apply apply will, by statute, cause the hs after the mailing date of the	THIS COMMUNICATION of event, however, may a reply be tind and will expire SIX (6) MONTHS from application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s)	Responsive to communication(s) filed on <u>07 September 2005</u> .					
2a) This action is FINAL .	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the pra	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 3-17 is/are pending in the 4a) Of the above claim(s) is 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 3-17 is/are rejected. 7) □ Claim(s) is/are objected to 8) □ Claim(s) are subject to res	s/are withdrawn from					
Application Papers						
9) ☐ The specification is objected to by 10) ☑ The drawing(s) filed on <u>08 Septem</u> Applicant may not request that any o Replacement drawing sheet(s) included the control of the control	nber 2003 is/are: a) Dispection to the drawing ing the correction is re-	s) be held in abeyance. Sequired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	R 1.121(d).		
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	l-152)		

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The finality of the rejection of the last Office action is withdrawn and the amendment filed on 07

September 2005 has been entered.

2. The indicated allowability of claims 5-8 and 13-16 is withdrawn in view of the newly discovered

reference to McEwan (US6914552), which issued on 5 July 2005. Rejections based on the newly cited

reference follow.

3.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for

the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b),

by another filed in the United States before the invention by the applicant for patent or (2) a

patent granted on an application for patent by another filed in the United States before the

invention by the applicant for patent, except that an international application filed under the treaty

defined in section 351(a) shall have the effects for purposes of this subsection of an application

filed in the United States only if the international application designated the United States and

was published under Article 21(2) of such treaty in the English language.

4. Claims 3-5, 7, 8, 10-13, 15 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by

US6914552. The US6914552 reference discloses a land mine detection system (see abstract) utilizing of

a swept/stepped frequency (see claim 3 & Figure 3 element 34) to sense induce vibrations (see column 1,

lines 37-40) and measuring the peaks of the sensed signal (see Figure 2B) as recited in claims 5 and 13.

With regards to claim 3 and 11 the reference discloses removing signals not of interest.

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With regards to claims 4 and 12 the reference discloses detecting and processing all harmonic

frequencies.

With regards to claims 8 and 16 the reference discloses comparing previous measurements.

With regards to claim 10 the reference discloses metal detection.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious

at the time the invention was made to a person having ordinary skill in the art to which said

subject matter pertains. Patentability shall not be negatived by the manner in which the invention

was made.

6. Claims 6, 9, 14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

US6914552 in combination with US5754494. The US6914552 reference discloses a land mine detection

system (see abstract) utilizing of a swept/stepped frequency (see claim 3 & Figure 3 element 34) to sense

induce vibrations (see column 1, lines 37-40) and measuring the peaks of the sensed signal (see Figure

2B) as recited in the claims. The difference between the US6914552 reference and the claims is that the

claims recite the utilization of an audible output. The US5754494 reference teaches that it was well

known in the art to utilize an audible output with a landmine detection device. It would have been obvious

to modify the US6914552 reference to utilize an audible output as motivated by the US5754494 reference

to enable the US6914552 system to alert the operator of a landmine detection device.

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7. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Dan Pihulic whose telephone number is 571-272-6977. The examiner can normally be

reached on Tuesday through Thursday from 5:30 a.m. to 4 p.m. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza, can be reached on 571-272-

6979.

The fax phone numbers for the organization where this application or proceeding is assigned are:

571-273-8300 for official responses, and

571-273-6977 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the receptionist whose telephone number is 571-272-3600.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Daniel T. Pihulic Primary Examiner T.C. Art Unit 3662